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Express Mail No.: EL 452 481 167 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Frey *et al.*

Serial No.: 09/623,326

Filed: February 8, 2001

For: Polymerase Chimerae

Group Art Unit: 1656

Examiner: Ghashghaee, S

Attorney Docket No.: 4894

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PRELIMINARY AMENDMENT UNDER 37 CFR §1.115

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the Rules of Practice, please enter the following amendments and consider the remarks below prior to the examination of the above-captioned application.

AMENDMENT

IN THE SPECIFICATION

On page 20, please replace the paragraph beginning "E.coli XL1 Blue x pBTaqEc1:..." with the following paragraph:

B1 E.coli XL1 Blue x pBTaqEc1: **TaqEc1** (SEQ ID NO:1) DSM No. 12053

On page 20, please replace the paragraph beginning "E.coli XL1 Blue x pBTaqTne1:..." with the following paragraph:

B2 E.coli XL1 Blue x pBTaqTne1: **TaqTne1** (SEQ ID NO: 3) DSM No. 12050

On page 20, please replace the paragraph beginning "E.coli XL1 Blue x pBTaqTne2:..." with the following paragraph:

B3 E.coli XL1 Blue x pBTaqTne2:**TaqTne2** (SEQ ID NO: 4) DSM No. 12051

On page 20, please replace the paragraph beginning "E.coli XL1 Blue x pBTaqPfu1:..." with the following paragraph:

B4 E.coli XL1 Blue x pBTaqPfu1:**TaqPfu1** (SEQ ID NO: 5) DSM No. 12052

On page 35, please replace the table beginning:

Enzyme	Temperature [°C]					
	25	37	50	60	72	80
TaqPol(BM)	0.0	0.0	5764.4	8489.1	50000.0	57986.1
NHIs-TaqPol	0.0	0.0	5616.1	12165.2	60843.7	74784.4
TaqEc1	704.9	10353.4	50066.5	41034.4	2677.5	1016.2
TaqTne1	0.0	2559.4	15967.0	18900.4	1100.0	0.0
TaqTne2	747.2	5180.2	23549.6	30627.3	64139.1	28727.4

With the following table:

B5

Enzyme	Temperature [°C]					
	25	37	50	60	72	80
TaqPol(BM)	0.0	0.0	5764.4	8489.1	50000.0	57986.1
NHIs-TaqPol	0.0	0.0	5616.1	12165.2	60843.7	74784.4
TaqEc1 (SEQ ID NO: 1)	704.9	10353.4	50066.5	41034.4	2677.5	1016.2
TaqTne1 (SEQ ID NO: 3)	0.0	2559.4	15967.0	18900.4	1100.0	0.0
TaqTne2 (SEQ ID NO: 4)	747.2	5180.2	23549.6	30627.3	64139.1	28727.4

On page 36, please replace the table beginning:

Enzyme	1 min	3 min	6 min	1 min	3 min	6 min
	80°C	80°C	80°C	95°C	95°C	95°C
TaqPol(BM)	100	100	100	100	100	100
NHIs-TaqPol	100	100	100	100	100	100
TaqEc1	0	0	0	0	0	0
TaqTne1	16	0	0	0	0	0
TaqTne2	100	100	100	92	0	0

With the following table:

Enzyme	1 min	3 min	6 min	1 min	3 min	6 min
	80°C	80°C	80°C	95°C	95°C	95°C
TaqPol(BM)	100	100	100	100	100	100
NHIs-TaqPol	100	100	100	100	100	100
TaqEc1 (SEQ ID NO: 1)	0	0	0	0	0	0
TaqTne1 (SEQ ID NO: 3)	16	0	0	0	0	0
TaqTne2 (SEQ ID NO: 4)	100	100	100	92	0	0

On page 37, please replace the paragraph beginning "Example 6: 3'-5' exonuclease..." with the following paragraph:

Example 6: 3'-5' exonuclease test - TaqEc1 (SEQ ID NO: 1) variant

On page 38, please replace the paragraph beginning "Example 7: Correction of 3'-mismatched primers..." with the following paragraph:

Example 7: Correction of 3' -mismatched primers and their extension - TaqEc1 (SEQ ID NO: 1) variant (3' -mismatch primer correction assay)


REMARKS

The application has been amended to incorporate the SEQ ID NOS of the various sequences disclosed therein by their respective SEQ ID NOS as assigned in the Sequence Listing being submitted concurrently herewith. No new matter is introduced by virtue of these amendments. Accordingly, Applicants kindly request that they be entered into the instant application.

No fees are believed due in connection with this response. However, the Commissioner is authorized to charge all required fees, fees under 37 C.F.R. § 1.17 and all required extension of time fees, or credit any overpayment, to Pennie & Edmonds U.S. Deposit Account No. 16-1150 (order no. 1803-281-999).

Respectfully submitted,

Dated: August 24, 2001



Rahul Pathak 42,983
(Reg. No.)

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Enclosures